



Rhode Island Department of Environmental Management Office of Technical and Customer Assistance



Environmental Compliance Certification Program for Exterior Lead Paint Removal Contractors



Exterior Lead Paint Removal Certification Program

Project Partners



U.S. Environmental Protection Agency



Rhode Island Department of Health



Rhode Island Housing Resources Commission



University of Rhode Island, Center for Pollution Prevention & Environmental Health



Exterior Lead Paint Removal Certification Program

The Exterior Lead Paint Removal Certification Program And The Environmental Results Program Model



Exterior Lead Paint Removal Certification Program

Environmental Results Program

- **Developed in Massachusetts (mid 90s)**
 - ◆ **RI was the first state to adopt MADEP ERP model, 6-12 additional states, strong EPA-HQ support**
 - ◆ **Environmental performance and compliance certification initiative**



Exterior Lead Paint Removal Certification Program

What We Like About the ERP Model

- **Supplements traditional inspection and assistance efforts**
- **Does not replace existing state/federal regulations or regulatory structures**



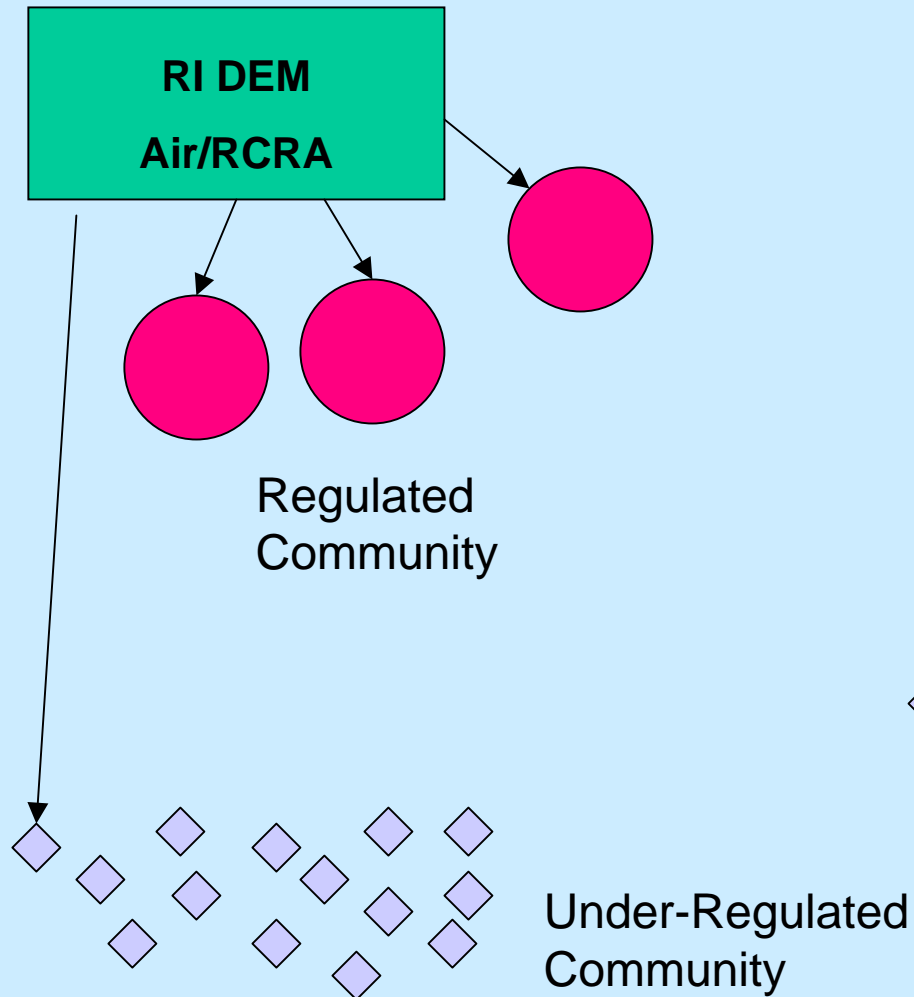
Exterior Lead Paint Removal Certification Program

Environmental Results Program

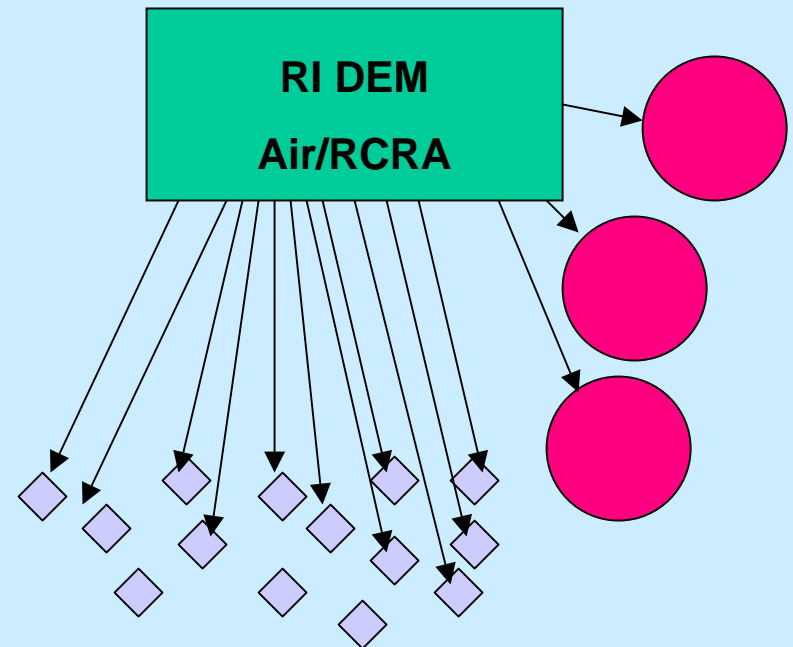
Industry sectors In Rhode Island:

- **Exterior Lead Paint Removal**
- **Automotive Refinishing**
- **Underground Storage Tanks**
- **Auto Salvage Yards**

Before ERP



After ERP





Exterior Lead Paint Removal Certification Program

Environmental Results Program

Three Major Components:

1. Compliance Certification

- clear standards, accountability, self-evaluation

2. Statistical Tracking

3. Technical/Compliance Assistance



Exterior Lead Paint Removal Certification Program Presentation Overview

Overview of Lead Paint Responsibilities in Rhode Island

- Department of Environmental Management is responsible for regulations pertaining to exterior lead paint removal
- Department of Health is responsible for regulations pertaining to interior lead paint removal
- Housing Resources Commission is responsible for the Rhode Island Lead Hazard Mitigation Law (Rental Properties)



Exterior Lead Paint Removal Certification Program Presentation Overview

This presentation will address:

- What is the Exterior Lead Paint Removal Certification Program?
- What are the benefits to participating?
- What are the program requirements?
- Additional helpful information





Exterior Lead Paint Removal Certification Program

What is the Exterior Lead Paint Removal Certification Program?

- Exterior lead paint removal contractors can now self-certify to DEM that they are complying with environmental regulatory requirements that apply to their business.

- The program uses three components:
 1. Certification Workbook
 2. Certification Participation Form & Checklist
 3. Project Checklist



Exterior Lead Paint Removal Certification Program

What is the Exterior Lead Paint Removal Certification Program?

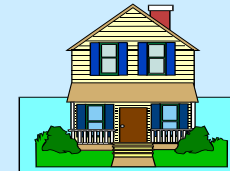
- ❖ The **Certification Workbook** explains the requirements that apply to exterior lead paint removal, and how to make sure you are complying with them.
- ❖ The workbook is designed to be used in conjunction with the **Certification Checklist Package**, and can also be used as a reference for your exterior lead paint removal operations.

Environmental Compliance Certification Program

Certification Workbook

For

Exterior Lead Paint Removal Contractors



March 2005



Rhode Island Department of Environmental Management
Office of Technical and Customer Assistance
235 Promenade Street, Suite 250
Providence, RI 02908
(401) 222-6822

www.dem.ri.gov



Exterior Lead Paint Removal Certification Program

What is the Exterior Lead Paint Removal Certification Program?

❖ The **Certification Workbook** covers the following areas:

- ✓ Program Overview
- ✓ Facts about Lead
- ✓ DEM's Air Pollution Regulation # 24
- ✓ Federal Pre-Renovation Education Rule
- ✓ Lead-Safe Paint Removal Management Practices
- ✓ Worker Health and Safety Information
- ✓ Laboratory Information
- ✓ Additional Resources for Information

Environmental Compliance Certification Program

Certification Workbook

For

Exterior Lead Paint Removal Contractors



March 2005



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Exterior Lead Paint Removal Certification Program

What is the Exterior Lead Paint Removal Certification Program?

❖ The **Certification Checklist Package** contains the **Certification Participation Form & Checklist**, and the **Project Checklist**, which contain a series of environmental compliance questions pertaining to whether or not you are following the applicable federal and state environmental regulatory requirements.

❖ It also contains blank forms that can be copied and used in helping to fulfill environmental regulatory requirements.





Exterior Lead Paint Removal Certification Program

What is the Exterior Lead Paint Removal Certification Program?

The program uses two Checklists, found in the green **Certification Checklist Package**

Certification Participation Form & Checklist

- ✓ A four page form that is completed and submitted to DEM to participate
- ✓ Upon submitting this form to DEM, a Certificate of Participation will be issued by DEM, for acknowledgement that the contractor is certifying to complying with the two environmental regulations that pertain to removal of exterior lead based paint

Project Checklist

- ✓ A two page form and participating contractors agree to provide it to the owner/occupant for each exterior lead paint removal job, before the project begins.
 - ✓ This form is not submitted to DEM



Exterior Lead Paint Removal Certification Program

What is the Exterior Lead Paint Removal Certification Program?

- o An industry stakeholder group met in late 2004 and again in early 2005 to review and give input on program design
- o A Program Introduction & Training workshop for paint removal contractors was held in May 2005
(attendance not required to participate in the program)
- o Future workshops will be based on the training needs of paint removal contractors

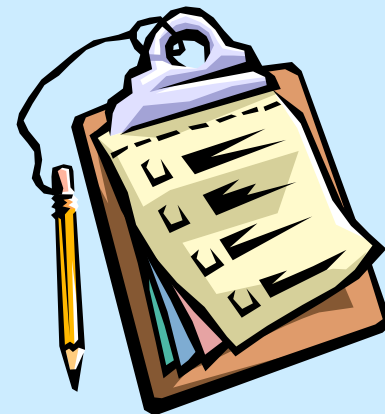




Exterior Lead Paint Removal Certification Program

What is the Exterior Lead Paint Removal Certification Program?

- Participation in the program is voluntary, and
- Contractors that perform exterior lead paint removal should strongly consider participating



BUT

- All exterior lead paint removal contractors (all persons, for that matter) operating in the State of Rhode Island **must** comply with the requirements in the workbook and all environmental regulations that pertain to removal of exterior lead paint, whether or not they self-certify



Exterior Lead Paint Removal Certification Program

What is the Exterior Lead Paint Removal Certification Program?

There are benefits to participating:

- Receiving a Certificate of Participation from DEM
- Using your DEM Certification as a marketing tool with customers
- Being placed on a public list of certified paint contractors on DEM's website
- Making you better prepared for a random inspection of work being performed



Exterior Lead Paint Removal Certification Program

What is the Exterior Lead Paint Removal Certification Program?

There are benefits to participating (continued):

- Information and education on methods of complying with environmental regulations that apply to removing exterior lead paint
- Entitling you to free technical assistance from DEM's Office of Technical & Customer Assistance to comply with environmental regulations.
- Receiving educational and promotional materials



Exterior Lead Paint Removal Certification Program

What are the program requirements?

- ❖ Workbooks and checklists were mailed in April 2005 to known exterior painting contractors
- ❖ Program Introduction and Training was held in May 2005; attendance *not required* to participate
- ❖ The **Certification Participation Form & Checklist** should be completed and returned to DEM as soon as possible, to begin receiving benefits of program participation
- ❖ Certification will take place every two years.
Certification Packages will be sent again in 2007



Exterior Lead Paint Removal Certification Program

What are the program requirements?

- Read the **Certification Workbook** to understand your environmental responsibilities
2. Make a copy of the **Certification Participation Form & Checklist** to use as a working draft
 3. Read the checklist, and complete all of the questions
 4. Review the checklist for completeness





Exterior Lead Paint Removal Certification Program

What are the program requirements?

5. Review your **Certification Participation Form & Checklist** for completeness and accuracy. Once complete:
 - ✓ Copy your answers from the draft to the original form
 - ✓ Sign the certification statement
 - ✓ Make a copy of the completed certification checklist for your files
 - ✓ Mail the original signed copy to DEM
 - ✓ After submitting this form, complete the *Project Checklist* for each exterior lead paint removal job and provide to the owners/occupants of the structure before work begins



Exterior Lead Paint Removal Certification Program

The Specifics –The Exterior Lead Paint Removal Certification Program

What does it mean?



A contractor certifies to complying with:

1. DEM Air Pollution Control Regulation # 24
(Removal of Lead Based Paint from Exterior Surfaces)
2. Pre-Renovation Education Rule (Federal)



Exterior Lead Paint Removal Certification Program

Why Lead?

- ❖ Lead is a *highly toxic metal* that was used for many years in products found in and around our homes, including paint
- ❖ Lead may cause a range of health effects, from behavioral problems and learning disabilities, to seizures and death
- ❖ Anyone can be lead poisoned, but lead is most dangerous for children younger than six years of age because their bodies are still developing. Lead can adversely affect their health and learning abilities



Exterior Lead Paint Removal Certification Program

Why is Dust a Problem?

- ☐ Dust & debris can contain lead, lead contaminated dust & debris is very toxic
- ☐ It's hard to sweep (and should NOT be swept up)
- ☐ It travels; once lead is released, it is easily tracked out of the work area
 - An exterior paint removal project can contaminate the inside of a home if lead dust, paint chips, and leaded soils are tracked inside



Exterior Lead Paint Removal Certification Program

DEM Air Pollution Control Regulation # 24



DEM Air Pollution Control Regulation # 24

Removal of Lead Based Paint from Exterior Surfaces

- ✓ This regulation considers exterior lead-based paint to be any paint or surface coating that contains more lead than 0.05% by weight, or 500 ppm
- ✓ It applies to any person who removes lead paint from exterior surfaces, including contractors, homeowners, businesses, and governmental agencies
- ✓ You should assume that any house built in 1978 or earlier contains lead-based paint unless the house has been tested, and the results indicate that the house does not contain lead-based paint



Exterior Lead Paint Removal Certification Program

DEM Air Pollution Control Regulation # 24

DEM Air Pollution Control Regulation # 24 - Removal of Lead Based Paint from Exterior Surfaces

This regulation covers:

- ✓ Notification Requirements
- ✓ Preparation
- ✓ Approved exterior lead paint removal methods
- ✓ Alternative paint removal methods
- ✓ Paint removal from structures other than buildings
- ✓ Cleanup Methods
- ✓ Disposal Methods



Exterior Lead Paint Removal Certification Program

DEM Air Pollution Control Regulation # 24

DEM Air Pollution Control Regulation # 24 - Removal of Lead Based Paint from Exterior Surfaces

Who must be notified that exterior lead paint will be removed?

- Adults residing in the structure from which exterior paint is being removed
- Owners or property managers of the structure and of any building within fifty (50) feet of the structure undergoing lead paint removal
- Adults in residences located within fifty (50) feet of the structure undergoing lead paint removal
- Managers of businesses or organizations located within fifty (50) feet of the structure undergoing lead paint removal
- Principals of schools and the chief administrative officer of schools located within fifty (50) feet of the structure undergoing lead paint removal

Fifty feet is the key!



Exterior Lead Paint Removal Certification Program

DEM Air Pollution Control Regulation # 24

DEM Air Pollution Control Regulation # 24 - Removal of Lead Based Paint from Exterior Surfaces

Preparations before paint removal begins:

- All toys, play equipment and furnishings within fifty (50) feet of the paint removal project must be removed, or must be covered with a leak proof material
- Impenetrable ground cover (such as plastic) that has been anchored or weighted down must be used to collect paint debris
- Vertical containment should be prepared to be erected if paint debris is observed to be falling beyond the ground cover during paint removal



Exterior Lead Paint Removal Certification Program

DEM Air Pollution Control Regulation # 24

DEM Air Pollution Control Regulation # 24 - Removal of Lead Based Paint from Exterior Surfaces

Approved Paint Removal Methods:

- ***Wet Manual Scraping*** – Must mist surfaces with water just prior to scraping, and keep surface wet until scraping is completed
- ***HEPA Equipped Mechanical Sanding or Scraping*** – the sander or scraper used is equipped with a HEPA (high efficiency particulate air) vacuum unit
- ***HEPA Equipped Dry Abrasive*** – the abrasive-blasting system must be equipped with a HEPA vacuum that collects paint debris at the blasting head
- ***Hydroblasting, or Wet Abrasive*** – With this method, upright containment must be used to prevent any and all debris generated by the operation from going beyond the ground sheeting
- ***Heat Removal*** – No open flame is permitted, such as the use of torches. The temperature of heat gun devices used cannot exceed 1000° F
- ***Chemical Removal*** – Paint strippers are allowed as long as the stripper is nonflammable, and contains no methylene chloride



Exterior Lead Paint Removal Certification Program

DEM Air Pollution Control Regulation # 24

DEM Air Pollution Control Regulation # 24 - Removal of Lead Based Paint from Exterior Surfaces

Alternative Paint Removal Methods:

- If alternative methods of paint removal are to be used, including high pressure power washing that removes lead paint, a description of the methods must be submitted to DEM Office of Air Resources and approved, prior to use of the methods.

Exterior lead paint removal from structures other than buildings:

- This includes structures such as fences, bridges, and towers
- A plan describing the type of removal methods to be used, and describing what measures will be used to prevent contamination of the environment with lead, must be submitted to DEM's Office of Air Resources for approval before the paint removal takes place



Exterior Lead Paint Removal Certification Program

DEM Air Pollution Control Regulation # 24

DEM Air Pollution Control Regulation # 24 - Removal of Lead Based Paint from Exterior Surfaces

Cleanup Methods:

- *At the end of the work day*
 - ✓ All lead paint related debris, including liquid waste, must be collected and placed in containers, and stored in plastic bags in an area not easily accessible to the public
 - ✓ All sheeting must be removed from the paint removal area and stored away from public access
 - ✓ The area must be inspected for any leftover paint debris

- *At the end of the project*
 - ✓ All containers of lead paint related debris and liquid waste, including ground covers, must be disposed of properly
 - ✓ The area must be inspected for any leftover paint debris



Exterior Lead Paint Removal Certification Program

DEM Air Pollution Control Regulation # 24

DEM Air Pollution Control Regulation # 24 - Removal of Lead Based Paint from Exterior Surfaces

Disposal Methods:

(See Disposal Guidelines found with Air Pollution Control Regulation # 24 at www.dem.ri.gov)

Lead paint and debris must be disposed of in accordance with DEM Solid & Hazardous Waste Regulations, using one of the following methods:

- **Disposed of as household solid waste by homeowner/occupant, through use of curb-side collection, a community sponsored transfer station, or a household hazardous waste collection**
- **Removed from the site and tested to determine whether material is solid waste or hazardous waste; with disposal through an intermediate facility, that facility could be considered a generator of hazardous waste. (see Disposal Guidelines)**
- **If lead based paint is removed from commercial or industrial property, it must be managed in accordance with DEM Rules & Regulations for Hazardous Waste Management**



Exterior Lead Paint Removal Certification Program

DEM Air Pollution Control Regulation # 24

Do **NOT** use the paint removal methods listed below, they are dangerous and in violation of DEM Air Pollution Control Regulation # 24

- X Do not dry scrape or dry sand
- X Do not use an open flame or torch to burn off paint
- X Do not use heat guns exceeding 1000° F
- X Do not power sand or grind unless a HEPA filter equipped sander or grinder is used
- X Do not sand blast unless system is equipped with a HEPA filter at the blasting head
- X Do not use flammable strippers, or strippers containing methylene chloride
- X **Never** burn leaded debris, including debris containing paint chips or dust





Exterior Lead Paint Removal Certification Program Pre-Renovation Education Rule



Pre-Renovation Education Rule

- ❖ This is a federal rule that was issued by EPA under the authority of Section 406(b) of Title IV of the Toxic Substances Control Act (TSCA)
- ❖ This rule has been in effect since June 1, 1998
- ❖ It requires that contractors, property managers, and others who perform renovations (including paint removal) for compensation in residential housing that may contain lead based paint provide lead information to residents before renovating



Exterior Lead Paint Removal Certification Program Pre-Renovation Education Rule

Pre-Renovation Education Rule

- ❖ It applies to residential houses and apartments built before 1978
- ❖ Renovations include most repairs, remodeling, and maintenance activities, including paint removal, that disturb painted surfaces (more than 2 sq. ft of painted surface area)
- ❖ It is based on concern that potential lead exposure risks could occur during renovations of housing containing lead-based paint, and the belief that informed owners and occupants scheduled for renovation could take actions to avoid lead exposure to themselves and their families



Exterior Lead Paint Removal Certification Program Pre-Renovation Education Rule

Pre-Renovation Education Rule

- ❖ It requires that contractors, property managers, and others who perform renovations (including paint removal) for compensation provide the pamphlet ***“Protect Your Family from Lead in Your Home”*** to owners and occupants
- ❖ They must receive a signed statement of receipt of the pamphlet **BEFORE** work has begun on the project
- ❖ If the housing is tenant occupied, then the contractor must provide copies of the pamphlet to both the owner and the tenant, and receive signed statements of receipts from both
- ❖ Signed statements must be retained by the contractor for a period of three (3) years



Exterior Lead Paint Removal Certification Program Pre-Renovation Education Rule

Pre-Renovation Education Rule

“Protect Your Family from Lead in Your Home”

- ❖ It can be downloaded from EPA’s website at <http://www.epa.gov/lead/leadprot.htm>, and it is available in Spanish and Vietnamese as well as English.
- ❖ It can also be obtained in English or in Spanish by calling the Rhode Island Family Health Information Line at (800) 942-7434
- ❖ It can be obtained in single copies through the National Lead Information Center at 1-800-424-LEAD or on-line



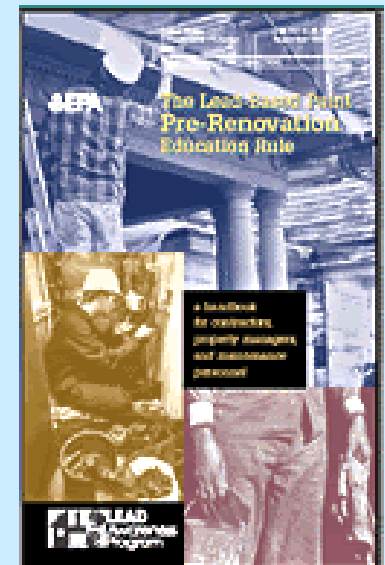


Exterior Lead Paint Removal Certification Program Pre-Renovation Education Rule

Pre-Renovation Education Rule

"The Lead-Based Paint Pre-Renovation Rule"

- ❖ This is a sixteen (16) page EPA booklet
- ❖ It is a handbook for Contractors, Property Managers, and Maintenance Personnel
- ❖ It contains information that will be helpful in understanding and complying with the rule
- ❖ It can be obtained in single copies through the National Lead Information Center at 1-800-424-LEAD [5323]





Exterior Lead Paint Removal Certification Program Pre-Renovation Education Rule

Pre-Renovation Education Rule - Exemptions

The federal rule does not apply in the following situations:

- ☐ Lead abatement activities carried out by certified lead abatement contractors
- ☐ Minor exterior repairs or maintenance that disturbs two (2) square feet or less of painted surface
- ☐ When surface to be painted is not disturbed by sanding, scraping, or other activities that may cause dust
- ☐ Housing that was built in 1978 or later
- ☐ Housing for the elderly or disabled persons (unless children live there)



Exterior Lead Paint Removal Certification Program Pre-Renovation Education Rule

Pre-Renovation Education Rule - Exemptions

The federal rule does *not* apply in the following situations:

- CONTINUED -

- ☐ Housing or components declared lead-free by a certified inspector or risk assessor
- ☐ Emergency renovations and repairs (hazardous, non-routine situation that could either threaten public health or cause substantial property damage)
- ☐ Work performed for free, with no exchange of money, goods, or services
- ☐ Work performed by do-it-yourselfers on their own homes



Exterior Lead Paint Removal Certification Program

Lead-Safe Paint Removal Management Practices



Before beginning the job:



- ✓ Provide notifications in writing to adults per DEM Air Pollution Control Regulation # 24
- ✓ Provide educational pamphlets to owners and residents, per the Pre-Renovation Education Rule
- ✓ Plan to keep owners and residents out of the immediate work area until the work has been completed
- ✓ Set up and anchor ground cover, and have material ready to set up vertical containment if it is necessary to use it



Exterior Lead Paint Removal Certification Program

Lead-Safe Paint Removal Management Practices



Equipment for the Job



- ✓ *Personal Protective equipment (safety glasses, protective clothing, disposable gloves, NIOSH approved respirator or dust mask with HEPA filter)*
- ✓ *Pre-moistened disposable wipes (no baby wipes)*
- ✓ *Tack pads*
- ✓ *6 mil drop cloths/ground covering*
- ✓ *Duct tape, utility knife*
- ✓ *All purpose cleaner, mops and buckets*
- ✓ *Spray bottles, plant misters*
- ✓ *Heavy duty plastic bags for debris disposal*
- ✓ *Disposable hand towels*
- ✓ *HEPA vacuum/equipment with HEPA filter vacuum attachment*
- ✓ *Heat gun with temperature that never exceeds 1000° F*
- ✓ *Ear protection for using power tools*
- ✓ *First aid kit*



Exterior Lead Paint Removal Certification Program

Lead-Safe Paint Removal Management Practices



While Working...



- ☐ Choose work methods that will create the least amount of dust
- ☐ Be careful not to track dust or paint chips out of the work area
- ☐ Misting the impenetrable ground cover will help to keep dust down
- ☐ Keep dust and debris in the smallest possible area, and minimize the spread of dust
- ☐ Clean frequently as you work, this will reduce the spread of dust and paint chips
- ☐ Don't eat, drink, or smoke while in the work area



Exterior Lead Paint Removal Certification Program

Lead-Safe Paint Removal Management Practices



Other Safe Work Practices:



Some other safe work practices to use on the job include:

- ✓ Mist before drilling and cutting, to reduce creating dust and keeping dust from becoming airborne
- ✓ Use shaving cream or foam prior to drilling
- ✓ Score paint before separating components, this helps to prevent paint from chipping when a paint seal is broken
- ✓ Pry or pull apart components rather than pounding, to create less dust
- ✓ Do not use power tools on heavily misted surfaces; water can cause electric shock and tool blades can slip
- ✓ When misting, lightly mist the work surface, and use hand tools



Exterior Lead Paint Removal Certification Program

Lead-Safe Paint Removal Management Practices



When Leaving the Work Site:



- ✓ Remove shoe coverings, wipe shoes or vacuum with HEPA vacuum
- ✓ Use tack pads
- ✓ Vacuum protective clothing with a HEPA vacuum before removing it
- ✓ At the end of the day before leaving the work site:
 - ✓ change clothing and shoes
 - ✓ place work clothing in plastic bag
 - ✓ wash face and hands
 - ✓ shower as soon as you get home
 - ✓ wash work clothing separately from household laundry



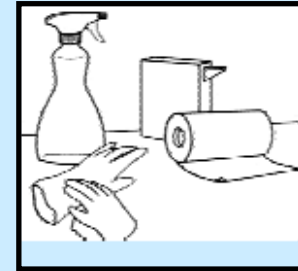
Exterior Lead Paint Removal Certification Program

Lead-Safe Paint Removal Management Practices



When cleaning up:

- ✓ Clean all surfaces, tools, and clothing
- ✓ Visually inspect beyond the work area
- ✓ Mist drop/ground cloths, carefully roll or fold inward, and place plastic in single 6-mil or double 4-mil plastic bags
- ✓ Mist all dust and chips, and place in plastic bags
- ✓ Tie off tops of trash bags with duct tape with a "gooseneck seal"
- ✓ Dispose in accordance with DEM Air Pollution Control Regulation # 24





Exterior Lead Paint Removal Certification Program

Worker Health & Safety

- ❖ This program does *not* include certification to complying with regulations administered by OSHA
- ❖ But because worker health and safety issues are so important, basic information and additional resources are provided in the Workbook
- ❖ OSHA requirements that pertain to Lead are found in 29 CFR 1926.62 (Code of Federal Regulations)
- ❖ Non-regulatory OSHA Compliance Assistance can be obtained from the Department of Health's OSHA Consultation Program, at 222-2438
- ❖ Information can also be obtained from the Providence office of OSHA at 528-4669, and
- ❖ Rhode Island Committee on Occupational Safety & Health (RI COSH) at 751-2015



Exterior Lead Paint Removal Certification Program

Worker Health & Safety

- ❖ It is important to recognize that significant lead exposures can also arise from removing paint from surfaces previously coated with lead-based paint
- ❖ Construction projects, including paint removal, vary in their scope and potential for exposing workers to lead and other hazards
- ❖ Important components of a worker health and safety program include engineering and work practices controls, “housekeeping” and personal hygiene, protective clothing, respiratory protection, and medical surveillance
- ❖ Fact sheets, and additional information about lead exposure in construction, can be found on OSHA’s website at <http://osha.gov/SLTC/constructionlead/index.html>





Exterior Lead Paint Removal Certification Program Additional Information



Many sources of information are provided in the Workbook (some already referenced in this presentation). They include:

- ❖ U. S. Environmental Protection Agency
- ❖ U. S. Department of Housing & Urban Development
- ❖ Centers for Disease Control & Prevention
- ❖ National Lead Information Center
- ❖ Occupational Health & Safety Administration (OSHA)
- ❖ Rhode Island Childhood Lead Poisoning Prevention Program, Rhode Island Department of Health
- ❖ Childhood Lead Action Project (RI)



Exterior Lead Paint Removal Certification Program Additional Information



Family Health Information Line - Rhode Island
Department of Health

Division of Family Health

(800) 942-7434

Rhode Island Housing Resources Commission
For information about the
"Rhode Island Lead Mitigation Law"

(401) 450-1350



Exterior Lead Paint Removal Certification Program



For questions about the program, or
completing the forms, contact:

Tom Armstrong at DEM at
(401) 222-4700, Ext. 4412, or by email at
Thomas.Armstrong@dem.ri.gov